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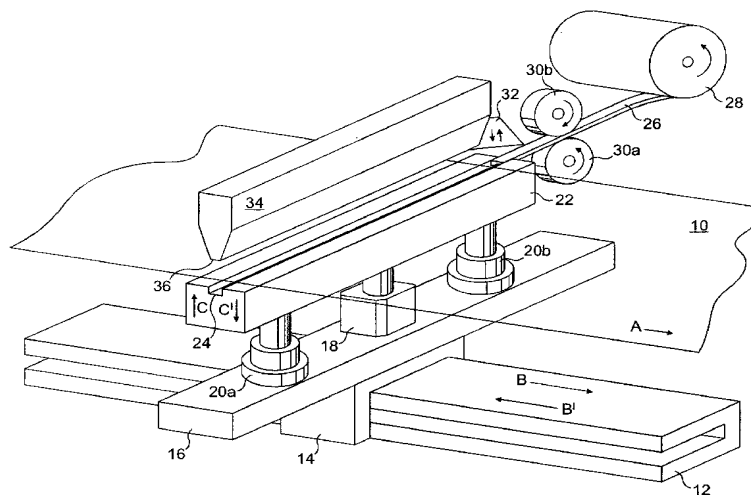
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(54) Title: APPLICATION OF ZIPPERS TO A MOVING FILM MATERIAL



(57) Abstract: An apparatus for application of zippers to film material (10) comprises an applicator bar (22) for presenting pre-cut lengths of zipper (25) to the film and a heated sealing bar (34) for sealing the pre-cut lengths to the film. The applicator bar, the sealing bar, feed rollers (30a, 30b) and a zipper cutter (32) are mounted for movement with the film on a linear motor (14). A pneumatic cylinder (18) raised the application bar towards the film (10). The applicator bar moves in direction C to apply the zipper to the film (10) moving in direction A, then moves with the sealing bar and the film in direction B, away from the film in direction C', back to its starting position in direction B', then towards the film again in direction C. A further length of zipper may be fed to the applicator bar at any time after the bar has moved away from the film in direction C' and therefore during an end portion of the forward stroke of the motor, or during its return stroke.

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